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PROVISIONAL SPECIFICATION.

Improvements in Devices for Silencing or Preventing Rattling of Window Sashes.

I, VICTOR TREVERT, of 93, Bramfield Road, New Wandsworth, S.W., London, Ironmonger's Assistant, do hereby declare the nature of this invention to be as follows:—

This invention relates to improvements in devices for silencing or preventing rattling of window sashes, and the object is to provide novel and simplified means which will automatically and effectually press the sash against the frame to silence said sash at partly closed or fully closed positions of the latter. The invention is more particularly adapted for use with the single sash windows used in motor road vehicles, carriages, cabs, railway cars and the like, but is not restricted to such since the same may be used with ordinary sash windows of houses, and if required may be modified or have its position changed to meet the different requirements where two sliding sashes are concerned.

According to this invention, and more particularly as applied to a single sash vehicle window, the device consists of a casing or bracket adapted to be secured to the side of the window frame, this casing being open at the side adjacent the sash and having pivoted therein an arm bifurcated so as to provide two parallel members between which is rotatably mounted a roller, preferably grooved on its periphery, for reception of a rim of rubber, leather or other resilient material which bears against the side stile of the sash. The roller may be made entirely of such resilient material if desired. The arm aforesaid is under the action of a spring tending to hold the roller thereon in contact with the sash stile and the throw of said arm and consequently the pressure of the roller against the stile adjusted or regulated by means of a screw or equivalent bearing at one end against the arm or on a tail thereof and the other end extending from the casing where it is provided with a head or button whereby it may be easily manipulated. By suitable adjustment of the screw and consequently of the arm the device may be used equally with light as well as heavy sashes.

In the preferred construction the screw bears upon a projection of the arm at side of the pivot opposite the roller, the spring pressure and throw of the roller being greatest under normal conditions for heavy sashes and said pressure relieved for lighter sashes by screwing up the screw so that the throw of the arm is limited.

In use it is intended generally to provide one of the devices at opposite sides of the inner portion of the window frame in such a manner or position that the roller bears resiliently against the sash stiles and hold the sash firmly against the portions of the frame when the sash is partly open, thus preventing rattling. It may however be found in practice that one of the devices is sufficient for the purpose in view. On raising or moving the sash to closed position the spring on the arm will become slightly more compressed by the general inward movement of the sash in closing same and when the lower rail of the sash passes the rail of the frame and the sash is fully closed the spring again expands and keeps the roller on the arm firmly and resiliently against the sash stile

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and the sash as a whole closely applied to the outer frame thus effectually silencing same.

With the above device it will be obvious that no guard plate is required as with known forms in which a spring pressed metal ball bears against the sash, since the rollers of the present invention exert no wear on the sash stiles and the action is absolutely noiseless at all times.

I do not limit myself to the exact construction and arrangement of parts described above, since the same may be modified within limits without departing from the spirit of the invention.

Dated this 7th day of July, 1910.

HERBERT HADDAN & Co.,
Agents for Applicant,
31 and 32, Bedford Street, Strand, W.C., London.

COMPLETE SPECIFICATION.

Improvements in Devices for Silencing or Preventing Rattling of Window Sashes.

I, VICTOR TREVETT, of 93, Bramfield Road, New Wandsworth, S.W., London, Ironmonger's Assistant, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention relates to devices for silencing or preventing rattling of window sashes, and the object is to provide novel and simplified means which will automatically and effectually press the sash against the frame to silence said sash in partly closed or fully closed positions of the latter. The invention is more particularly adapted for use with the single sash windows used in motor vehicles, carriages, cabs, railway cars and the like, but is not restricted to such since the same may be used with ordinary sash windows of houses, and if required may be modified or have its position changed to meet the different requirements where two sliding sashes are concerned.

The invention consists in improvements in silencers having a spring pressure arm or lever pivoted to the window frame and carrying a roller adapted to bear against the sash, and a screw acting on the arm for limiting the travel of said arm to adjust the pressure of the roller against said sash, and according to this invention I provide a double armed lever having one arm provided with a bifurcated end in which is mounted the roller which is formed of or has periphery of resilient material, and the adjusting screw acts on the other end of said lever whereby a very compact device particularly suitable for carriage windows is produced.

A practical embodiment of the invention is represented in the accompanying drawings wherein Fig. 1 is a front elevation. Fig. 2 a side elevation and Fig. 3 a similar view to Fig. 2 with the casing and arm in section.

In the construction shown the invention is applied to a single sash window, and the device consists of a casing or bracket *a* adapted to be secured to the side of the window frame *b*, this casing being open at the side adjacent to the sash and having pivoted therein at *c* an arm or double-armed lever *d* pivoted so as to provide two parallel members between which is rotatably mounted a roller *e* adapted to bear against the side stile of the sash *f* and which is grooved on its periphery, for reception of a rim of rubber, leather or resilient material or as shown in the drawing made entirely of such material. The arm *d* aforesaid is under the action of a spring *g* tending

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the roller *c* thereon in contact with the sash stile *f* and the throw of said arm and consequently the pressure of the roller against the stile is adjusted or regulated by means of a screw *h* or equivalent bearing at one end against the tail *d* of the arm and the other end extending from the casing where it may be provided with a head or button *i* as shown in broken lines whereby it may be easily manipulated. The screw may however terminate in a notched end as shown in full lines for actuation by a screw driver. By suitable adjustment of the screw and consequently of the arm the device may be used equally with light as well as heavy sashes.

- 10 The spring pressure and throw of the arm are greatest under normal conditions for heavy sashes and said pressure is relieved for lighter sashes by screwing up the screw so that the throw of the arm is limited.

In use it is intended generally to provide one of the devices at opposite sides of the inner portion of the window frame in such a manner or position that the rollers bear resiliently against the sash-stiles or against the frame as the case may be and hold the sash firmly against the outer portions of the frame when the sash is partly open, thus preventing rattling. It may however be found in practice that one of the devices is sufficient for the purpose in view. On raising or moving the sash to closed position the spring bearing on the arm will become slightly more compressed by the general inward movement of the sash in closing same and when the lower rail of the sash passes the fence rail of the frame and the sash is fully closed the spring again expands and still keeps the roller on the arm firmly and resiliently against the sash-stile or frame and the sash as a whole closely applied to the frame thus effectually silencing the sash.

With the above device it will be obvious that no guard plate is required as with known forms in which a spring-pressed metal ball bears against the sash, since the rollers of the present invention exert no wear on the sash-stiles and the action is absolutely noiseless at all times.

- 30 Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

A silencing device for window sashes comprising a double-armed spring-pressed lever having one arm provided with a bifurcated end, a roller mounted in said bifurcated end and formed of or having a periphery of resilient material and a screw acting on the other arm of said lever substantially as described and illustrated in the accompanying drawings.

Dated this 6th day of January, 1910.

40 HERBERT HADDAN & Co.,
Agents for Applicant,
31 & 32, Bedford Street, Strand, London, W.C.

[This Drawing is a reproduction of the Original on a reduced scale.]

Fig. 1.

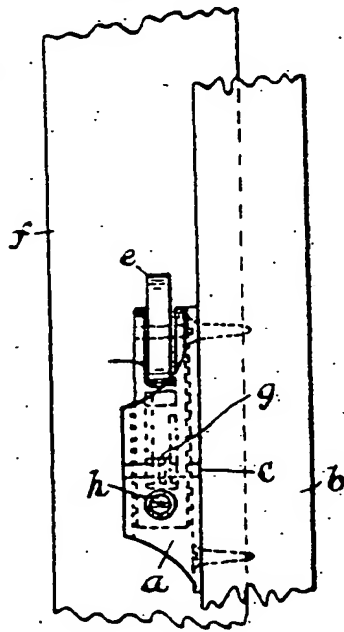


Fig. 2.

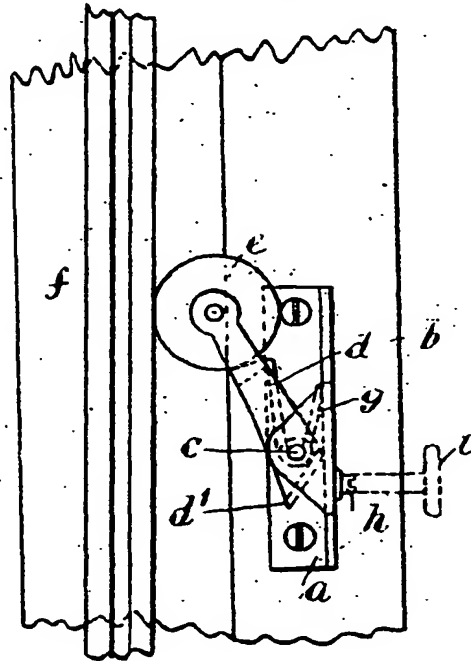
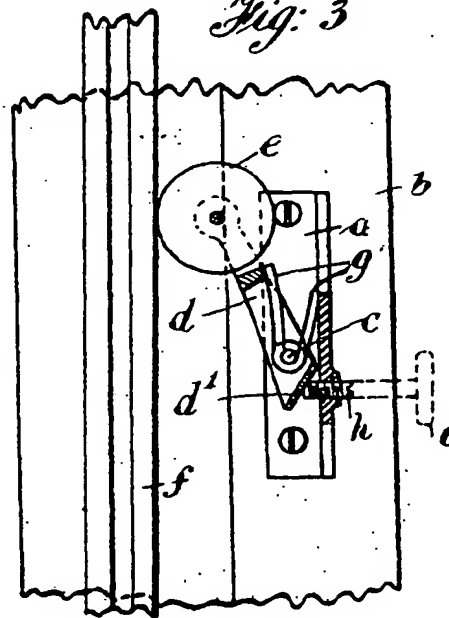


Fig. 3.



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